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2003

2

OIPE

RAW SEQUENCE LISTING

DATE: 12/17/2001

PATENT APPLICATION: US/10/007,693

TIME: 10:06:41

Input Set : A:\515c2.app

Output Set: N:\CRF3\12172001\J007693.raw

P.S

3 <110> APPLICANT: Bhatia, Ajay
 4 Probst, Peter
 8 <120> TITLE OF INVENTION: COMPOUNDS AND METHODS FOR TREATMENT
 9 AND DIAGNOSIS OF CHLAMYDIAL INFECTION
 11 <130> FILE REFERENCE: 210121.515C2
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/007,693
 14 <141> CURRENT FILING DATE: 2001-12-05
 16 <160> NUMBER OF SEQ ID NOS: 157
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 19 <211> LENGTH: 1311
 20 <212> TYPE: DNA
 21 <213> ORGANISM: Chlamydia trachomatis
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 26 ctttaactag gagtcatcca tgagtcaaaa taagaactct gctttcatgc agcctgtgaa 180
 27 cgtatcgcgt gatttagctg ccacgcttgg tgcaggacct atgcctcgca cagagatcat 240
 28 taagaaaatg tgggattaca ttaagaagaa tagccttcaa gatcctacaa acaaacgtaa 300
 29 tatcaatccc gatgataaat tggctaaagt ttttggaact gaaaaaccta tcgatatgtt 360
 30 ccaaatgaca aaaatggttt ctcaacacat cattaaataa aatagaaatt gactcacgtg 420
 31 ttccctcgtt ttaagatgag gaactagttc attctttttg ttcgtttctg tgggtattac 480
 32 tgtatcttta acaactatct tagcagcacc tgttttgaca tgggtttggg ccaatcactt 540
 33 agagcctaac ctattgagag taacgcgttt aaattggaat ctgcctaaaa aatttgctca 600
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 35 tgcctttcta aaaaaagtat ctcgtaagat ctcttctctt tctccagata ttcttgatt 720
 36 tacaggagac tttgtctgtc gcgctaaagt agaaactcct gaaagattaa aacatttctt 780
 37 atgttctctg catgcgccct taggctgttt tgcctgccta ggaaatcatg attacgccac 840
 38 ctacgtatcc cgtgatattc acgggaaaaa taataccatc tcagcaatga atagccgtcc 900
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 40 tgcagatact ctgaatccac aaattcctaa tccacaccta gtcagtatat tacgcaatac 1020
 41 tccatttcaa ttattgcata atcaaagcgc gacactttcc gatacaatca acatcgtggg 1080
 42 attaggcgat ttttttgcca aacaattcga tccccaaaaa gcttttactg actataatcc 1140
 43 cacgttacct ggtattatcc tttctcataa tcccgatagc attcaccatc tccaagatta 1200
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 50 <213> ORGANISM: Chlamydia trachomatis
 52 <400> SEQUENCE: 2
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 55 cccaaccaag ctctctgcgg tgcgtaaaaa acctaaattc aaaagaatga ctgcgccgtc 180
 56 atcttcagaa agacgatccg acttcataa ttcgatgtct tccccatgg ggatctctgt 240
 57 agggagccag ttatttgccg agccattcaa ataattgtcc caagcccat tgtacttaat 300
 58 aggaacaagt tggttgacat cgacctggtt gcagttcact agacgcttgc tatttagatt 360
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61 ctttcttcgc tctttcaaca ataattcctg ccgaagcaga cttattcttc atccaacgag 540
62 gctgaattcc tctcttatta atatctacaa aagatttttc aacggtcgtt gctgatgaag 600
63 atctcagata atacgtagtt ttcaaaccctt ttttccaagc cgtaaataac atattcgaca 660
64 gttttttccc gtctggctgg gcaagataaa ggttgaggga ttgccccata tcaatccatt 720
65 tttgtcttcg agacgcgcac tcgataatcc attctggttc aatctcaaaa gctgtcaaga 780
66 aaatatgttt taagtgatct ggtatacgtc cgattttcaa taaagaccca tcaaaatatt 840
67 tcaggtcatc taacatatca gcatcccaga tacctaattt cttcaacttc tcaattaaat 900
68 acacatttgg aatcgtgaat tctccggaca aattagactt cacaacaaaa tgtttgtacg 960
69 ttggctcaat agattgagtt actcctataa tgttgagagt cgtcgtctgtc ggagctatag 1020
70 ccataagctg acaatgtcgc ataccatgct ctttaaccaa actacggata ggttcccaat 1080
71 cttttcttga tgacgtatcc atctggagat ttgcttctcc tcgatagttc gctaacaact 1140
72 gaatcgtatc aatagggagc aaacctctat cccatttcca tcttttataa gagctgtaag 1200
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74 aactgtagtc agcaaatctt acagcttctt gcgaagcata gcttatatct agcttatata 1320
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76 tagcttcctt tgttgagataa aagttaatat caatcacgtt atccaacata cggactgcta 1440
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83 <213> ORGANISM: Chlamydia trachomatis
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88 tcgagaagag gataagttag atgggcaaat ccctgaagtc ttgatctcag gcaatgcagg 180
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90 gggagccatt tgtactcaaa atttgacgat ttctcagaat acaggggaatg ttctgtttta 300
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92 agaagctttt ggaggagata ttgtttttta aggaaattct tctttcagag cacaaggatc 420
93 cgatgccatc tattttgcag gtaaagaatc gcatattaca gccctgaatg ctacggaagg 480
94 acatgctatt gttttccaag acgcattagt ttttgaaaat ctagaagaaa ggaaatctgc 540
95 tgaagtattg ttaatcaata gtcgagaaaa tccaggttca aaatttctca agtttgatgc 600
96 aattgtgcta ttcgctacct ttagttttct atgtccacgg taaagggatc ggaaagatac 660
97 gcatttattt tcatagtctt tagcttcgat ccctagtgtc tccgcatgga ctgctctgcc 720
98 aagacttttg gttacgaaaa caacaggctc tcgttgagaa atgatttgga gtagctctag 780
99 cgtgagggtg tttttctgtt tctcgtgggt tgaaagattg actagaggag agacttcaat 840
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102 ctttgccgag gattccaatt cttcgattac tgtaaaaggg ataatgatgc gagtgttaga 1020
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104 tttcattaca aattcctaaa tgactcaagt gtaaggggga gatagtactt tgattgtgta 1140
105 tcatatccag aaaaattaaa acatgtcttt gttagagaga agtcgggaga gaggggtttt 1200
106 agcaatcaac ctccgcgtgt gctaattctgt ttgtcaaaaa tgtaccctt aactacaatg 1260
107 ccgaggaaaag cgagtccttc tgttgagggt tgttatgaaa gtcaaaatta atgatcagtt 1320
108 catttgtatt tccccataca tttctgctcg atggaatcag atagctttca tagagtcttg 1380
109 tgatggaggg acggaagggg gtattacttt gaaactccat ttaattgatg gagagacagt 1440
110 ctctataccc aatctaggac aagcgattgt tgatgagggt ttccaagagc acttgctata 1500

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111 tttagagtcc acagctcctc agaaaaacaa ggaagaggaa aaaattagct ctttgttagg 1560
112 agctgttcaa caaatggcta aaggatgcga agtacagggt ttttctcaaa agggcttggg 1620
113 ttctatgtta ctaggaggag ctgggtcgat taatatgttg ttgcaacatt ctccagaaca 1680
114 taaggatcat cctgatcttc ctaccgattt actggagagg atagcgcaaa tgatgcgttc 1740
115 attatctata ggaccaactt ctatttttagc taagccagag cctcattgca actgtttgca 1800
116 ttgtcaaat ggacgagcta cagtggaga agaggatgcc ggagtatcgg atgaggatct 1860
117 cacttttcgt tcatgggata tctctcaaag tggagaaaag atgtacactg ttacagatcc 1920
118 tttgaatcca gaagtatacc ttttgttttt tttatacgag ccagcactcc aattttctgac 1980
119 tgtgagaata tatcataaat agaccggcct ctagcgctgc gaatagaaaa agtctttgct 2040
120 atagcactat caagccttcc ctttatacgc tcaagcaata gaaacggaga tctacgcaat 2100
121 ggattttcat tgtactcatt aaacgagcgg aaaatgaaat tactcaaatt ttcttcagcg 2160
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123 tcggcacgag gtctctaata ttgcagaagg agcacaaaatt tttgctgtcc aaggggttaa 2280
124 tactgctgga gaaataggat actgccctcc ttgccctcca gatgcgaagc atcgctatta 2340
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127 <210> SEQ ID NO: 4

128 <211> LENGTH: 1094

129 <212> TYPE: DNA

130 <213> ORGANISM: Chlamydia trachomatis

132 <400> SEQUENCE: 4

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135 ttagctgcac agtagctggg cacagagggg ttcccgtac gtcttaacag atttgtctgg 180
136 acttaacttt tagtgtttgg catcgcaaac agaataattt tggtgcaatg gttttttctt 240
137 aatggaatca aggtgatagt atttgtcgga tggacaagtg tatagagagt atccagtgtc 300
138 tctgtattgg atagactctg ttttgtccta gctggaaagc atctgtcgta ttctgttta 360
139 gagatcacag agggactaaa tagggaaatg gtatcgccaa aagtcttaaa gtcttaggag 420
140 agctcgcatg ttcaagtgcc cggagcgggt cagcgtcaaa aagaaagaag atattttaga 480
141 tcttctaata cttgtcgaag ttcaaatcaa gtcgtataag cagtttcttc aaatcgggaa 540
142 gcttgctgaa gagcgagaaa acattgggtt agaagaagtc ttcagagaaa ttttcctat 600
143 caagtcttat aatgaagcta cgatttttaga gtacctctct tataacttag gagtgcccaa 660
144 ataactccca gaagagtgtt ttcgtcgggg aatcacctat agtgttactt taaaggttcg 720
145 tttccgttta actgatgaaa cggggattaa agaagaagaa gtctatatgg gaaccatccc 780
146 catcatgact cataagggaa cctttattat taatggggca gagagagtcg ttgtttctca 840
147 agtccaccgt tctccaggaa tcaattttga acaagaaaaa cattctaaag ggaatgtttt 900
148 attttctttt agaattattc cttatcgagg aagttgggta gaagctgtct tcgacattaa 960
149 tgaccttata tatatccata ttgataggaa aaaacgtcgc agaaagattt tagctattga 1020
150 cgttttatcc agcttttagga tattcaacag atgcagatat tattgaagag ttcttttctg 1080
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153 <210> SEQ ID NO: 5

154 <211> LENGTH: 2129

155 <212> TYPE: DNA

156 <213> ORGANISM: Chlamydia trachomatis

158 <400> SEQUENCE: 5

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161 agggccatca tgtttagcaaa aaaacaggat caaaaaaac tatttctcaa gccgcctctt 180
162 ttaaatctta attacaaaaa taaaaatcaa ttcaactttt caaaaaaaga atttaaakat 240
163 taattgttat aaaaacaata tttattataa aataataacc atagttgcgg ggaaatctct 300

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165 gttcaccatt cgttctccga taagcatcct caaattgcta aagctatgcg gattacgggg 420
166 ataaccctcg cagctctatc tctgctcgct gtagtcgcct gcgttattgc cgtctctgcg 480
167 ggaggagctg ccattcctct tctgtctcatt ggtggaattg ctgcaatgtc tggcctctta 540
168 tccgctgccca ccattatctg ttctgcaaaa aaggctctgg ctcaacgaaa acaaaaacaa 600
169 ctagaagagt tgcttccggt agataatgcg accgagcatg tgaattacct gacctcagac 660
170 acctcttatt ttaatcaatg ggaatcctta gatgctctaa ataagcagtt gtctcagatt 720
171 gacttaacta ttcaagctcc cgaaaaaaa ctattaaaag aagttcttgg ttccagatac 780
172 gattccatta atcaactccat cgaagagatc tccgctcgct ttacgaaaat gctctctctt 840
173 cttcgattaa gagaacattt ttgtcgagga gaagagcggt atgcccccta ttttagccct 900
174 cctctactta acaagaatcg tttgtcgacc caaatcacat ccaatatgat taggatgcta 960
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183 caagatgagg cgctcogttc tcaattagag aaacgagctt acttattccc aattcctaatt 1500
184 aacgacgaaa atgctaaaac taaagaatcg cagcttctag actcagaaaa tgattcaaat 1560
185 tctgaatttc aggagattat aaataaagga ctagaagctg ccaataaacg acgagctgac 1620
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192 ttagataatc actaacggtt cttcataaat gacaaaaaga aaaaggagag ctgttgctgt 2040
193 gctctccttt ttctctaaat attcctgaaa gactaacctt tttatggttg cgttgagcct 2100
194 cctcctcctg ttcccagga gcccgcaac 2129

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196 <210> SEQ ID NO: 6

197 <211> LENGTH: 1828

198 <212> TYPE: DNA

199 <213> ORGANISM: Chlamydia trachomatis

201 <400> SEQUENCE: 6

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204 ataaaggcat cccaaggaag ccctggaatc acttcatatt ctcccgttgc tagcattcga 180
205 caagggaaac caaagattaa atcttccggt aatccatagg gattgtggtc cgaacacact 240
206 ccggaagaaa accattctcc ttcttttggc tgatatattg atcgagcagc ctctgctaaa 300
207 gctcgtgctg cagaagctgc cgaagacttc cctcgtgctt cgattactgc actaccacga 360
208 ctctgtacag aaggcaccat aatattctct aaccaatcac gatccgctat cgtctctgcg 420
209 ataggacggt cattaatcag agcttgcgta aaatcaggca cttgtttggc ggagtgtatt 480
210 ccccaaacca caacttgtga tacagccgat aaaggtactt ctgctctatg cgataacatg 540
211 ctatgcatac gattctggtc caatcgtagc atcgcatgaa agttctttct caataatctg 600
212 ggagcatgat tcattgctat ccagcaattg gtattcacag ggttcccaac aacaaaaatc 660
213 ttgcatccc gcttggtgtg tgtgttcaaa gcttttcctt gcgtagcaaa aatctcccca 720
214 tttttcttta gaagatccct tctctccatt cctgggcctc taggaactga ccctataagg 780

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217 ccaggaatat cgtagatacg cagatcgatg ccacaatcaa ggccaaaaac atctccatga 960
218 gccagagaaa atagaaagct ataggctatt tgccctgttc ctctgtttac tgctacactc 1020
219 actgtttgag aaaccataag ccaccctctc tttactttta caaaacgcac atactctcaa 1080
220 cactacgttt gcaactaact aattttggtc ccaacatacg tttggatgat aaaagaatca 1140
221 agtacctaga ttcttagta aaagcttttg gcaaaaaaaa gctcatctat ttttcaatag 1200
222 atgagccgac tttaactgaa taagaactta gaaaacttta taaaaaatag gcccggtgta 1260
223 tcctacccat atacttgatc ccgaccgcat aacttgttgt ccctttttag cagccaaata 1320
224 accgtggaca tctaaaaaac caataaaccg tgcgcgaata aagaacataa agcccctaaa 1380
225 aaaacgattt taagagagaa gtaatagaca gattgtaaca tatttaaaat aaaactctg 1440
226 caaacaacaa aactttgcct ggccgtctcc gtagaaagca ctttatgtta aaacgttaaa 1500
227 aagtcttaac atacctcgag ctccgggaaa ctctacagga gcattccccg acatgatgcc 1560
228 tataatttgc gttgccaaatt ctttccctaa tgaaacccct tcttgatcaa aagaattgat 1620
229 tccccagcaa aacccttgaa atgcaaattt atgctcataa aaagccaata aactaccagc 1680
230 aatacgagga gaaagctgtt gcgctaccaa tatcgaagaa ggtctgttcc ctttaaacct 1740
231 cttattcggg ttgcattat ctctaccctg agctaaagct aaagattgag caacaagggt 1800
232 tgcaaagagc ttttgagatc tcgtgccg 1828

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234 <210> SEQ ID NO: 7

235 <211> LENGTH: 861

236 <212> TYPE: DNA

237 <213> ORGANISM: Chlamydia trachomatis

239 <400> SEQUENCE: 7

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242 ccacagttac agaaatcgat gagaagcttt ttccctaaga aagatgatgc gtttcatcgg 180
243 tctagtctgc tattctactc tccaatggtt ccgcattttt gggcagagct tcgcaatcat 240
244 tatgcaacga gtggtttgaa aagcgggtac aatattggga gtaccgatgg gtttctccct 300
245 gtcattgggc ctgttatatg ggagtcggag ggtcttttcc gcgcttatat ttcttcggtg 360
246 actgatgggg atggtaagag ccataaagta ggatttctaa gaattcctac atatagttgg 420
247 caggacatgg aagattttga tccttcagga ccgcctcctt gggaagaatt tgctaagatt 480
248 attcaagtat tttcttctaa tacagaagct ttgattatcg accaaacgaa caaccaggt 540
249 ggtagtgtcc tttatcttta tgcactgctt tccatgttga cagaccgtcc tttagaactt 600
250 cctaaacata gaatgattct gactcaggat gaagtgggtg atgctttaga ttggttaacc 660
251 ctggttgaaa acgtagacac aaacgtggag tctgccttg ctctgggaga caacatggaa 720
252 ggatatactg tggatctaca ggttgccgag tatttaaaaa gctttggacg tcaagtattg 780
253 aattggttga gtaagggga tatcagtta tcaacgccta ttcctctttt tggttttgag 840
254 aagattcctc cacatcctcg a 861

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256 <210> SEQ ID NO: 8

257 <211> LENGTH: 763

258 <212> TYPE: DNA

259 <213> ORGANISM: Chlamydia trachomatis

261 <400> SEQUENCE: 8

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263 aacgaaacga aaagcttgct aatgaaaatt attcacacag ctatcgaatt tgctccggta 120
264 atcaaagccg gaggcctggg agacgcgcta tacggactag caaaagcttt agccgctaatt 180
265 cacacaacgg aagtggtaat ccctttatac cctaaattat ttactttgcc caaagaacaa 240
266 gatctttgct cgatccaaaa attatcttat ttttttgctg gagagcaaga agcaactgct 300
267 ttctcctact tttatgaagg aattaaagta actctattca aactcgacac acagccagag 360

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Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/007,693

DATE: 12/17/2001

TIME: 10:06:43

Input Set : A:\515c2.app

Output Set: N:\CRF3\12172001\J007693.raw

L:13 M:270 C: Current Application Number differs, Wrong Format

L:5632 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134